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# INSECT TYPES AND COTYPES.

## A PRELIMINARY LIST OF THOSE IN THE FRANCIS HUNTINGTON SNOW ENTOMOLOGICAL COLLECTIONS.

By CHAS. H. WITHINGTON, Museum Assistant in Systematic Entomology, University of Kansas, Lawrence.

THE following is a list of the types and cotypes in the Francis Huntington Snow entomological collections, University of Kansas, Lawrence:

### ORDER NEUROPTERA.

#### HEMEROBIDÆ.

*Glenyus snowii* Banks.

### ORDER ORTHOPTERA.

#### MANTIDÆ.

*Stagomantis gracilipes* Rehn.

#### TRYXALINÆ.

*Cordillacris pima* Rehn.

#### CEDIPODINÆ.

*Lactista arphoides* Rehn.

*Trimerotropis snowi* Rehn.

#### ACRIDINÆ.

*Melanoplus blatchleyi* Scudd.  
*bruneri* Scudd.  
*gladstoni* Brunn.  
*intermedius* Brunn.  
*snowi* Scudd.

#### LOCUSTIDÆ.

*Ceuthophilus tuckeri* Rehn.

*Udeopsylla serrata* Rehn.

### ORDER HEMIPTERA-HETEROPTERA.

#### COREINA.

*Alydus setosus* V. D.

#### BERYTIDÆ.

*Jalysus wickhami* V. D.

#### CAPSIDÆ.

*Xestoeorus nitens* Reut.

*Diaphnidia debilis* Uhl.

*Orthoptylus translucens* Tucker.

*Oncotylus sericatus* Uhl.

#### TINGITIDÆ.

*Corythuca pergandei* Heid.

### ORDER HEMIPTERA-HOMOPTERA.

#### FULGORIDÆ.

*Scolopsella reticulata* Ball.

*Oecleus snowii* Ball.

### BYTHOSCOPIDÆ.

*Pediopsis erythrocephalus* G. & B.

*Idiocerus snowii* G. & Pr.

*perplexus* G. & B.

*rufus* G. & B.

*Agallia gilletei* O. & B.

#### JASSIDÆ.

*Memnoinia consobrina* Ball.  
*fraterna* Ball.

*Parabolocratus brunneus* Ball.

*Deltocephalus flexuosus* Ball.

*Athysanus alpinus* Ball.

*Eutettix scitula* Ball.

*insana* Ball.

*striata* Ball.

*texana* Ball.

*snowi* Ball.

*osborni* Ball.

*Phlepsius graphicus* Ball.

*cumulatus* Ball.

*denudatus* Ball.

*turpiculus* Ball.

*Scaphoideus blandus* Ball.

*Lonatura noctuaga* Ball.

*salsura* Ball.

*Thamnotettix cockerelli* Ball.

*osborni* Ball.

*Empoasca atrolabes* Gill.

*unicolor* Gill.

*alboneura* Gill.

*nigroscuta* G. & B.

### ORDER LEPIDOPTERA.

#### HESPERIDÆ.

*Pyrgus nesus* Edw. (Cotype.)

*polingii* Barnes.

*occidentalis* Skinner.

*Heteropia melon*, var. *arizonensis* Skinner.

*Erycides batabano* Luc.

#### SATURNIIDÆ.

*Hyperchiria zephyria* Grt.

## SYNTOMIDÆ.

*Cosmosoma rubrogutta* Skinner.  
*Syntomoida befana* Skinner.  
*Scepsis packardii*, var. *cocklei* Dyar.

## LITHOSIIDÆ.

*Ruscino arida* Skin.

## ARCTIIDÆ.

*Alexicles aspersa* Grt.  
*Pygoctenucha funerea* Grt.  
*Hemihyalea labecula* Grt.  
*Bertholdia trigona* Grt.

## NOCTUIDÆ.

*Cyathissa quadrata* Sm. (Cotype.)  
*Perigea morsa* Smith. (Cotype.)  
*Hadena burgessi* Morr.  
*Oncocnemis major* Grt.  
*Acopa perpallida* Grt.  
*Aleptina flavomedia* Sm. (Cotype.)  
*Rhynchagrotis minimalis* Grt.  
     *bimarginalis* Grt.  
     *mirabilis* Grt.  
*Peridroma grandipennis* Grt.  
*Noctua conchis* Grt.  
     *beata* Grt.  
*Chorizagrotis terrealis* Grt.  
*Feltia circumdata* Grt.  
*Porosagrotis catenula* Grt.  
*Euoxa olivalis* Grt.  
     *ura* Sm. (Cotype.)  
     *flavidens* Sm.  
     *cænis* Grt.  
     *munis* Grt.  
     *infausta* Wlk., var. *rufula* Sm.  
     *verticalis* Grt.  
     *basalis* Grt.  
     *anacosta* Sm. (Cotype.)  
*Richia parentalis* Grt.  
     *distichoides* Grt.  
*Mamestra prodeniformis* Sm.  
     *artesta* Sm. (Cotype.)  
     *arida* Sm. (Cotype.)  
     *æsculi* Sm. (Cotype.)

*Barathra occidenta* Grt.  
*Trichorthosia parallela* Grt.  
*Anarta mimula* Grt.  
*Hydroecia juvenalis* Grt.  
*Pyrrhia stilla* Grt.  
*Heliothis suavis* Hy. Edw.  
*Rhodosea julia* Grt.  
*Grotella dis* Grt.  
*Bessula luxa* Grt.  
*Autographa snowi* Hy. Edw.  
*Marasmalus inficita* Wlk. var. *histrion* Grt.  
*Eucaleptra umbonalis* Sm.  
*Escaria clauda* Grt.  
*Metoponia nanata* Neum.  
*Minufolia instans* Sm.  
*Homopyralis miserulata* Grt.  
     *cinctus* Sm.  
*Euclidia intercalaris* Grt.  
*Calipters bucetum* Grt.

*Renia rigida* Sm.  
*Hypenula cominalis* Sm. (Cotype.)  
*Pathis albisinulatus* Sm. (Cotype.)  
*Rhescipha snowi* Skinner.

## LASIOCAMPIDÆ.

*Gloveria diasoma* Grt.

## GEOMETRIDÆ.

*Cænocalpe fervifactoria* Grt.  
     *formosata* Streck.  
*Emplocia inconstans* Geyer.  
*Fernaldella stalactaria* Streck., var. *alternaria* Grt.  
*Deilinia elimaria* Hulst.  
     *perpallidaria* Grt.  
*Sciagraphia continuata* Wlk., var. *curvata* Grt.  
*Caripeta æquaharia* Grt.  
*Glauцина puellaria* Dyar. (Cotype.)  
*Phæoura mexicanaria* Grt.  
*Eucaterva variaria* Grt.  
     *sabesaria* Grt.  
*Lychnosea helveolaria* Hulst.  
*Therina vitraria* Grt.  
*Hyperitis indiscretata* Hy. Edw.  
*Metanema excelsa* Streck., var. *simpliciararia* Grt.  
*Sabulodes sulphurata imitata* Hy. Edw.  
     *catenulata* Grt.

## SESHIDÆ.

*Melittia snowii* Hy. Edw.

## PYRALIDÆ.

*Symphysa simplicialis* Kearf.  
*Evergestis obliquialis* Grt.  
*Elophila avernalis* Grt.  
*Crambus dimidiatellus* Grt.  
*Dioryctria aurantiacella* Grt.

## TORTRICIDÆ.

*Proteoteras arizonæ* Kearf.  
*Epinotia snowiana* Kearf.

## YPONOMEUTIDÆ.

*Plutella yumaella* Kearf.

## BLASTOBASIDÆ.

*Holocera arizoniella* Kearf.

## TINEIDÆ.

*Trichophaga crescentella* Kearf.

## ORDER HYMENOPTERA.

## TENTHREDINIDÆ.

*Hylotoma conspiciulata* MacG.

## EVANIIDÆ.

*Hyptia texana* Brad.

## ICHNEUMONIDÆ.

*Ichneumon arizonensis* Vier.  
     *egregiafascialis* Vier.  
     *citrifacialis* Vier.  
     *flavicornis* Cress.  
     *varriola* Cress.

*Ichneumon nigrosignatus* Vier.  
*hemimelanorus* Vier.  
*humphreyi* Vier.  
*flavifascialis* Vier.  
*maurus* Cress. (Homotype.)  
*Amorpha pericalis* Vier.  
*pænaxareilata* Vier.  
*confluens* Vier.  
*confluens* Vier., mutation *a*.  
*confluens* Vier., mutation *b*.  
*confluens* Vier., mutation *c*.  
*augusta* Vier.  
*galvestonensis* Vier.  
*noctura* Vier.  
*relativo* Vier.  
*ferruginosa* Vier.  
*Platylabus omniferrugineus* Vier.  
*Phygadeuon oryxicornis* Vier.  
*spinicoxus* Vier.  
*Cryptus citrinimaculatus* Vier.  
*consobrinus* Vier.  
*politicalypteras* Vier.  
*Nematopodius exclamans* Vier.  
*Mesostenus discoidaloides* Vier.  
*Hemiteles manitonensis* Vier.  
*lathroscopoides* Vier.  
*Pezomachus homalommoide* Vier.  
*testaceicoxus* Vier.  
*alogus* Vier.  
*Ophion idoneum* Vier.  
*Eremotylus felti* Vier.  
*Thyreodon morio* Fabr., var. *trancionalis*, Vier.  
*snowi* Vier.  
*Nototrachys reticulatus* Cress. (Homotype.)  
*Anomalon fulvescens*, var. *hemimelas* Vier.  
*pæneferragineum* Vier.  
*Atrometus angitioides* Vier.  
*Campoplex photomorphus* Vier.  
*wyomingensis* Vier.  
*Limneria lawrencei* Vier.  
*vigile* Vier.  
*perdistinctum* Vier.  
*Ischnoscopus tæniatus* Vier.  
*Angitia autumnalis* Vier.  
*Mesochorus noctivagus* Vier.  
*Olesicampa melanerythrogastra* Vier.  
*Thersilochus hiltonensis* Vier.  
*snowi* Vier.  
*egregiacolor* Vier.  
*memeticus* Vier.  
*quintilis* Vier.  
*Metopius grandior* Vier.  
*Boethus ænigmaticus* Vier.  
*Synchnoporthus tuckeri* Vier.  
*Agathobancus bradleyi* Vier.  
*Pimpla parviabala* Vier.  
*landerensis* Vier.  
*Glypta aprilis* Vier.  
*brunneisigna* Vier.  
*egregiafovea* Vier.  
*succineipennis* Vier.  
*Arenethra leucotænis* Vier.

*Harrimaniella pæneimitatrix* Vier.  
*Lampronota occidentalis* Cress.  
 STEPHANIDÆ.  
*Stephanus tridens* Vier.  
 BRACHONIDÆ.  
*Bracon kansensis* Vier.  
*picipes* Vier.  
*Lysiphlebus succineus* Vier.  
*Melanobracon ulmicola* Vier.  
*Vipio erythis* Vier.  
*picipectus* Vier.  
*Rhogas fuscicaudus* Vier.  
*melanothorax* Vier.  
*Chelonus altitudinis* Vier.  
*egregiacolor* Vier.  
*exogyrus* Vier.  
*nucleolus* Vier.  
*texanoides* Vier.  
*Microgaster tuckeri* Vier.  
*Diochasma appalachicola* Vier.  
*secunda* Vier.  
*Boisteres indotatus* Vier.  
*Ischnutidea preteroptoides* Vier.  
*Cardiocheilus nigroclypeus* Vier.  
*Ascogaster mimeticus* Vier.  
*Agathis wyomingensis* Vier.  
*Microdus agathoides* Vier.  
*nigrotrochanter* Vier.  
*pimploides* Vier.  
*castaneicincta* Vier.  
*wichitaneicincto* Vier.  
*nigricaudus* Vier.  
*Lytophilus azygos* Vier.  
*Meteorus campestris* Vier.  
*relativus* Vier.  
*noctivagus* Vier.  
*Dinotrema signifrons* Vier.  
*Brachistes nocturnus* Vier.  
*Zele crassicalcara* Vier.  
*Cœnocelius politifrons* Vier.  
*Iphianlax perepicus* Vier.  
*propinquus* Vier.  
*militaris* Vier.  
*melanogaster* Vier.  
*cinnabarinus* Vier.  
*Opius aberrans* Vier.  
*basinigrus* Vier.  
*luticeps* Vier.  
*nigrocastaneus* Vier.  
*Aphereta delosa* Vier.  
*subtricarinata* Vier.  
*Aspilota columbia* Vier.  
*Challidoites kansensis* Brues.  
*Scopiarus monticola* Brues.  
*Hormiopterus claripennis* Brues.  
 CHALCIDIDÆ.  
*Leucopsis bicincta* Vier.  
 PROCTOTRUPIDÆ.  
*Scelio monticola* Brues.  
*striaticollis* Brues.  
*venata* Brues.

## CHRYSIDIDÆ.

- Notozus connexus Vier.  
 Chrysis equidens Vier.  
   kahli Vier.  
   kansensis Vier.  
   petronella Vier.  
   snowi Vier.

## MUTILLIDÆ.

- Mutilla crepuscula Vier.  
   nigricauda Vier.  
   prognoides.  
   montivagoides Vier.  
   quintilis Vier.  
   imperialiformis Vier.  
   strictinotus Vier.

## SCOLIIDÆ.

- Elis pollenifera Vier.  
   pollenifera Vier, var. A. Vier.

## POMPILIDÆ.

- Anoplius snowi Vier.  
 Cryptochelius pæneparecus Vier.  
 Aporus ferrugineipes Vier.  
 Pepsis angustimarginata Vier.

## SPHECIDÆ.

- Sphex ashmeadi Fernald. (Cotype.)  
 Parasphex ferrugineus Fox. (Cotype.)

## LARRIDÆ.

- Ancistronoma pænerugosa Vier.  
   tachysphegoides Vier.  
   regetoides Vier.  
   gerbeii Vier.  
 Tachysphex clarkonius Vier.  
   crassiformis Vier.  
   intermedius Vier.  
 Nitilopsis foxii Vier.

## NYSSONIDÆ.

- Gorytes guliemi Vier.  
   papagorus Vier.  
 Nysson clarcornis Vier.  
   intermedius Vier.

## PHILANTHIDÆ.

- Philanthus crassicornis Vier.  
   clarkonis Vier.  
   magdalenæ Vier.

## PEMPHREDONIDÆ.

- Passalocetus æqualis Vier.  
 Diodontus brunneicornis Vier.

## CRABRONIDÆ.

- Trypoxylon quintilis Vier.  
   negularis Vier.  
 Crabro canonicola Vier.  
   cinctibellus Vier.  
   clarkonis Vier.  
 Notoglossa calligaster Vier.  
   pæneomarginatus Vier.  
   tænigaster Vier.

- Crabro papagorum Vier.  
 Oxybelus exclamans Vier.

## EUMENIDÆ.

- Odynerus amphichrous Vier.  
   anormiformis Vier.  
   cochisensis Vier.  
   congressus Vier.  
   delodontus Vier.  
   egregius Vier.  
   excentralis Vier.  
   guliehmi Vier.  
   leonolus Vier.  
   pimorum Vier.  
   microstictus Vier.  
   maricoporum Vier.  
   papagorum Vier.  
   pænevagus Vier.  
   ampanulatus Vier.  
   rectangulis Vier.  
   sulfuritimetus Vier.  
   pulverulanta Vier.  
   spectabiliformis Vier.  
   hidalgiformis Vier.

## VESPIDÆ.

- Polistes exclamans Vier.  
 Andrena alaskensis Vier.  
   delosa Vier.

## AFIDÆ.

- Perdita klagesi Vier.  
 Melissodes duplocincta Ckll.  
   galvestonensis Ckll.  
   herrickii Ckll.  
   hexacantha Ckll.  
   nigrosignata Ckll.  
   pallidesignata Ckll.  
   prælanta Ckll.  
   portivagans Ckll.  
   semitristis Ckll.  
   tennitarsis Ckll.  
 Xenoglossa pruinosa, var. limitavis Ckll.  
   strenua, var. Kan. Ckll.  
 Synhalonia gillettii, sub. sp. snowii Ckll.  
   fustincta Ckll.  
   lippias, var. sublippiae Ckll.  
 Diadasia afflicta penafflicta Ckll.  
 Exomalopsis snowii Ckll.

## ORDER DIPTERA.

## TIPULIDÆ.

- Eriocera eriophora Will.  
   obscura Will.  
 Rhaphidolabis debilis Will.  
 Tipula acuta Doane.  
   dorsimacula Walker.  
   dorsilineata Doane.

## CHIRONOMIDÆ.

- Tersesthes torrens Towns.  
 Ceratopogon dimidiatus Adams.  
   flavus Will. (Cotype.)

*Chironomus anonum* Will. (Cotype.)  
*flaviventris* Johan.  
*longimanus* Will. (Cotype.)  
*lucifer* Johan.  
*microcerus* Will. (Cotype.)

CULICIDÆ.

*Culex affinis* Adams.  
*apicalis* Adams.  
*particeps* Adams.

MYCETOPHILIDÆ.

*Ceroplatus apicalis* Adams.  
*Platyura gracilis* Will.  
*notabilis* Will.  
*pulchra* Will.  
*Sciophila angulate* Adams.  
*nigricauda* Adams.  
*Syntemna mutator* Adams.  
*Neoglaphyoptera cuneola* Adams.  
*lineola* Adams.  
*striata* Will.

*Macrocera diluta* Adams.  
*Eunoriste occidentalis* Coq.

CECIDOMYIDÆ.

*Asphondylia atriplicis* Towns.  
*Cecidomyia raditæ* Snow.

SIMULIIDÆ.

*Simulium argus* Will.  
*notatum* Adams.  
*venustum* Say.

STRATIOMYDÆ.

*Scoliopelta lutipes* Will.  
*Hermetia comstocki* Will.  
*eiseni* Towns.  
*Ptecticus sackeni* Will.  
*Chrysochroma albipes* Towns.  
*Macrosargus clavis* Will.  
*Odontomyia americana* Day.  
*flava* Day.  
*pilosa* Day.  
*pubescens* Day.  
*Euparyphus albipilus* Adams.  
*limboventris* Will.  
*mutabilis* Adams.  
*ornatus* Will.  
*septemmaculatus* Adams.  
*Clitellaria argentata* Will.  
*Nemotelus abdominalis* Adams.  
*bruesii* Mel.  
*kansensis* Adams.  
*trinitatus* Mel.

TABANIDÆ.

*Pangonis dives* Will.  
*fera* Will.  
*Silvius pollinosus* Will.  
*Chrysops bistellatus* Daeck. (Cotype).  
*discalis* Will.  
*frazari* Will.  
*pachyceras* Will.

*Chrysops pertinax* Will.  
*sequax* Will.  
*Tabanus baal* Towns.  
*fenestra* Will.  
*fratellus* Will.  
*fur* Will.  
*guttatus* Towns.  
*hyalinipennis* Hine.  
*laticeps* Hine.  
*osborni* Hine.  
*parvulus* Will.  
*productus* Hine.  
*pygmaeus* Will.  
*sodalis* Will.  
*sagittarius* Macq.  
*tarsalis* Adams.  
*atratus* Hine.

LEPTIDÆ.

*Xylophagus decorus* Will.  
*gracilis* Will.  
*nitidus* Adams.  
*Xylomyia parens* Will.  
*Arthroceras pollinosum* Will.  
*Leptis palpalis* Adams.  
*pleuralis* Adams.  
*Chrysopila bella* Adams.  
*flavibarbis* Adams.  
*lucifera* Adams.  
*Symphoromyia flavipalpis*, Adams.  
*pachyceras* Will.  
*plangens* Will.

NEMESTRINIDÆ.

*Hirmoneura flavipes* Will.  
*Rhynchocephalus sackeni* Will.  
*volaticus* Will.  
 CYRTIDÆ.

*Acrocera liturata* Will.

BOMBYLIIDÆ.

*Anthrax æmulus* O. S.  
*agrippina* O. S.  
*alto* Tucker.  
*comparato* Tucker.  
*cunculus* O. S.  
*faustina* O. S.  
*livia* O. S.  
*moneta* O. S.  
*sabina* O. S.  
*Triplasia novus* Will.  
*Heterostylum sackeni* Will.  
*Anastoechus melanohalteralis* Tucker.  
*fulvipennis* Tucker.  
*Lordotus pulcherrimus* Will.  
*Eclimius auratus* Will.  
*lotus* Will.  
*melanosus* Will.  
*sodalis* Will.  
*Desmatoneura argentifrons* Will.  
*Aphobantus carbonarius* O. S.  
*conurus* O. S.  
*cyclops* O. S.

*Desmatomyia anomala* Will.  
*Dolichomyia gracilis* Will.

## THEREVIDÆ.

*Psilocephala acuta* Adams.  
*lateralis* Adams.  
*occipitalis* Adams.  
*Thereva anomala* Adams.  
*crassicornis* Will.

## SCENOPINIDÆ.

*Scenopinus electa* Adams.  
*mirabilis* Adams.

## MYDAIDÆ.

*Ecthypus townsendi* Will.  
*luteolus* Will.  
*Mydas abdominalis* Adams.  
*scitulus* Will.

## APIOCERIDÆ.

*Rhaphiomydas mellifex* Towns.  
*xanthos* Towns.

## ASILIDÆ.

*Leptogaster pictipes* Loew. (Homotype.)  
*Stenopogon æacidinus* Will.  
*gratus* Loew. (Homotype.)  
*Triclis tagax* Will.  
*Myelaphus rufus* Will.  
*Dioctria albius* Walker.  
*pusio* O. S.  
*Cyrtopogon dasyllis* Will.  
*dubius* Will.  
*? gibber* Will.  
*præpes* Will.  
*Lasiopogon terricolo* Johnson.  
*Holopogon snowii*. (Cotype.)  
*Saropogon albifrons* Black. (Cotype.)  
*combustus* Loew. (Homotype.)  
*Deromyia perplexo* M. A. C. (Cotype.)  
*Taractitus brevicornis* Will.  
*Cophura? brevicornis* Will.  
*fur* Will.  
*scitula* Will.  
*Nicocles abdominalis* Will.  
*rufus* Will.  
*Nusa chalybea* Will.  
*Dasyllis astur* O. S. (Homotype.)  
*Laphria canis* Will.  
*carbonarius* Will.  
*ferox* Will.  
*pubescens* Will.  
*ruficauda* Will.  
*ventralis* Will.  
*vivax* Will.  
*xanthippe* Will.  
*Ommatius nigromaculosus* Back.  
*Proctacanthus arno* Towns.  
*Erax dubius* Will.  
*jubatus* Will.  
*latrunculus* Will.  
*leucomus* Will.  
*similis* Will.  
*stamineus* Will.

*Mallophora guildiana* Will.  
*Promachus albifaces* Will.  
*princeps* Will.  
*rufipes* Fabr.  
*Stenoprosopus arizonensis* Will.  
*Neoitamus affinis* Will.  
*distinctus* Will.  
*Tolmerus delusus* Tucker. (Cotype.)  
*callidus* Will.  
*mesæ* Tucker.  
*Philodicus rufipennis* Hine.  
*Asilus angustifrons* Will.  
*astutus* Will.  
*Rhadiurgus leucopogon* Will.

## DOLICHOPODIDÆ.

*Psilopodinus insularis* Ald.  
*Diaphorus contiguus* Ald.  
*dubius* Ald.  
*flavipes* Ald.  
*simplex* Ald.  
*spectabilis* Loew. (Cotype.)  
*Asyndetus fratellus* Ald.  
*Chrysotus albipalpus* Ald.  
*excisus* Ald.  
*hirsutus* Ald.  
*niger* Ald.  
*picticornis* Loew.  
*Eutarsus sinuatus* Ald.  
*Parasyntormon occidentale* Ald.  
*Sympycnus frater* Ald.  
*Anepsiomyia linearis* Ald.  
*Neurigona lateralis* Say.  
*Thinophilus pectinifer* Wheeler.  
*Thrypticus cupuliferus* Ald.  
*singularis* Ald.  
*Hydrophorus canescens* Wheeler.  
*Liancalus hydrophilus* Ald.  
*similis* Ald.  
*Dolichopus albiciliatus* Ald.  
*ciliatus* Ald.  
*coloradensis* Ald.  
*convergens* Ald.  
*dakotensis* Ald.  
*duplicatus* Ald.  
*grandis* Ald.  
*idahocensis* Ald.  
*kansensis* Ald.  
*marginatus* Ald.  
*obcordatus* Ald.  
*occidentalis* Ald.  
*plumosus* Ald.  
*tenuipes* Ald.  
*vigilans* Ald.  
*willistonii* Ald.  
*Herocostomus latipes* Ald.  
*Paraclius filifer* Ald.  
*venustus* Ald.  
*Sarcionus lineatus* Ald.  
*Pelastoneurus argentifer* Ald.  
*kansensis* Ald.

EMPIDIDÆ.

- Drapetis flavida* Will.  
*latipennis* Mel. (Homotype.)  
*flaviceps* Will. (Cotype.)  
*Parahalassius aldrichi* Mel.  
*Thinodromis inchoata* Mel.  
*Hilara nugax* Mel.  
*Rhamphomyia sociabilis* Will.

PHORIDÆ.

- Aphiochæta halictorum* Mel. & Brues.  
*longifrons* Brues. (Metatype.)

PLATYPEZIDÆ.

- Callimya venusta* Loew.  
*Calotarsa calceata* Snow.  
*ornatipes* Towns.  
*Platypeza abscondita* Snow.  
*cinerea* Snow.  
*pulchra* Snow.  
*tæniata* Snow.  
*umbrosa* Snow.  
*unicolor* Snow.

PIPUNCULIDÆ.

- Pipunculus fuscitarsis* Adams.

SYRPHIDÆ.

- Microdon lanceolatus* Adams.  
*melanogaster* Snow.  
*pallipennis* Snow.  
*violens* Towns.  
*xanthophilus* Towns.  
*Callicera montensis* Snow.  
*Nausigaster scutellaris* Adams.  
*Chilosia chalybescens* Will.  
*lucta* Snow.  
*nigripennis* Will.  
*tarda* Snow.  
*willistonii* Snow.  
*Chalcomyia ærea* Loew.  
*Baccha bella* Will.  
*Platychirus palmulosus* Snow.  
*Melanostoma cærulescens* Will.  
*concinnum* Snow.  
*kelloggi* Snow.  
*Syrphus creper* Snow.  
*disgregus* Snow.  
*montivagus* Snow.  
*pullulus* Snow.  
*ruficauda* Snow.  
*Xanthogramma habilis* Snow.  
*Sphærophoria melanosa* Will.  
*Brachyopa cynops* Snow.  
*Volucella apicifera* Towns.  
*Eristalis montanus* Will.  
*Tropidia incana* Towns.  
*Helophilus dychei* Will.  
*Mallota albipilis* Snow.  
*Criorhina lupina* Will.  
*Spilomyia kahlii* Snow.  
*Ceria snowi* Adams.

CONOPIDÆ.

- Conops bellus* Adams.  
*fumipennis* Adams.  
*semifumosus* Adams.  
*gracilis* Will.  
*sylvosus* Will.  
*xanthopareus* Will.  
*Physocephala affinis* Will.  
*burgessi* Will.  
*furcillata* Will.  
*Zodion abitus* Adams.  
*bicolor* Adams.  
*parvum* Adams.  
*pictulum* Will.  
*pygmæum* Will.  
*scapulare* Will.  
*Stylogaster neglecta* Will.  
*Dalmanis picta* Will.  
*Oncomyia baroni* Will.  
*modesta* Will.  
*modesta*, var. *melanopoda* Will.  
*propinqua* Adams.  
*Myopa pictipennis* Will.  
*pilosa* Will.  
*plebeia* Will.  
*tectura* Adams.

TACHINIDÆ.

- Phoranthia occidentis* Walk.  
*Alophora ænoventris* Will.  
*Euscopolis dakotensis* Towns.  
*Trichopoda subcilipes* Towns.  
*Ceratomyiella conica* Towns.  
*Rhinophora mexicana* Towns.  
*valida* Towns.  
*Anisia vanderwulpi* Towns.  
*Euryceromyia robertsonii* Towns.  
*Hypostena floridensis* Towns.  
*indecis* Towns.  
*Hyalurgus johnsoni* Towns.  
*Polidea americana* Towns.  
*Eumyiothyria illinoisensis* Towns.  
*Leucostoma atra* Towns.  
*?neomexicana* Towns.  
*senilis* Towns.  
*Clytiomyia flava* Towns.  
*Xanthomelana atripennis* Say.  
*Epigrymyia floridensis* Towns.  
*geniculata* Towns.  
*lucens* Towns.  
*polita* Towns.  
*robertsonii* Towns.  
*Ginglymyia acirostris* Towns.  
*Plagiprospheryas floridensis* Towns.  
*parvipalpos* Van der W.  
*Plagia aurifrons* Towns.  
*Siphoplagia anomala* Towns.  
*Goniochæta plagioides* Towns.  
*Chætoglossa picticornis* Towns.  
*violæ* Towns.  
*Pachyophthalmus aurifrons* Towns.  
*floridensis* Towns.  
*Pseudotractocera neomexicana* Towns.

*Belvosia vanderwulpi* Will.  
*Malanophrys flavipennis* Will.  
*Aphria ocypterata* Towns.  
*Ocyptera argentea* Towns.  
*Nemoreia hypantriae* Towns.  
     *nigricornis* Towns.  
*Gymnochaeta ruficornis* Will.  
     *vivida* Will.  
*Hyphantrophaga hypantriae* Towns.  
*Exorista eudryadis* Towns.  
     *lagoae* Towns.  
     *plagioides* Towns.  
*Euphorocera tachinomoides* Towns.  
*Phorocera comstocki* Will.  
     *lophyri* Towns.  
     *puer* Will.  
*Hypertrophocera parvipes* Towns.  
*Frontina archippivora* Will.  
     *frenchii* Will.  
*Sturmia nigrita* Towns.  
*Masicera eufitchiae* Towns.  
     *exilis* Coq.  
     *hemarides* Towns.  
*Prospheerysa promiscua* Towns.  
     *websterii* Towns.  
*Vanderwulpia atrophopodoides* Towns.  
     *sequens* Towns.  
*Tachina floridensis* Towns.  
     *spinulosa* Towns.  
*Dæchæta harveyi* Towns.  
*Neotractocera anomala* Towns.  
*Paraphyto gilleti* Towns.  
*Blepharipeza nigrisquamis* Towns.  
     *rufescens* Towns.  
*Muscopteryx chaetosula* Towns.  
*Paradidyma braueri* Will.  
     *singularis* Towns.  
*Atrophopampus angusticornis* Towns.  
*Phorichæta sequax* Will.  
*Metopia leucocephala* Towns.  
*Hilarella decens* Towns.  
     *elita* Towns.  
     *polita* Towns.  
*Brachycoma chihuahuensis* Towns.  
     *intermedia* Towns.  
     *sarcophagina* Towns.  
*Euthyrosopa petiolata* Towns.  
*Gonia porca* Will.  
     *exul* Will.  
     *senilis* Will.  
     *sequax* Will.  
*Spallanzania finitima* Snow.  
     *hebes* Fal.  
*Eucnephalia gonoides* Towns.  
*Amobia distincta* Towns.  
*Archytas hystrioides* Will.  
*Echinomyia dakotensis* Will.  
     *hystricosa* Will.  
*Epalpus bicolor* Will.  
     *signiferus* Wlk.  
*Jurinella exilis* Towns.  
     *soror* Will.

## DEXIIDÆ.

*Hystrichodexia roederi* Will.  
*Melanodexia tristis* Will.

## SARCOPHAGIDÆ.

*Sarcophaga chætopygialis* Will.  
     *cimbicis* Towns.  
     *concinata* Towns.  
     *helicis* Towns.  
     *leucaniæ* Towns.  
     *micropygialis* Will.  
*Sarcodexia sternodontis* Towns.  
*Sarcophagula imbecilla* Van der W.

## MUSCIDÆ.

*Chrysomyia desvoidyi* Hough.  
*Morellia nigriceps* Bigot.  
*Hæmatobia aleis* Snow.

## BORBORIDÆ.

*Aptilotus politus* Will.  
*Limosina exigua* Adams.  
     *evanescens* Tucker.  
     *setigera* Adams.

## SCIOMYZIDÆ.

*Tetanocera inopa* Adams.  
*Sepedon ornatifrons* Adams.  
     *scapularis* Adams.

## SAPROMYZIDÆ.

*Pachycerina dolorosa* Will.  
*Sapromyza ingrata* Will.  
     *octovittata* Will.  
     *polita* Will.  
     *puella* Will.  
     *sororia* Will.

## ORTALIDÆ.

*Rivellia brevifasciata* Johnson.  
*Euxesta apicalis* Will.

## TRYPETIDÆ.

*Spilographa concolor* Van der W.  
*Trypeta occidentalis* Snow.  
*Polymorphomyia basilica* Snow.  
*Edaspis minuta* Snow.  
     *montana* Snow.  
*Rhagoletis zephyria* Snow.  
*Eutreta longicornis* Snow.  
*Eurosta fenestrata* Snow.  
     *reticulata* Snow.  
*Xenochæta dichromata* Snow.  
*Icterica fasciata* Adams.  
*Tephritis dupla* Cress. (Cotype.)  
     *pallidipennis* Cress. (Cotype.)  
     *obscuripennis* Snow.  
     *variabilis* Doane.  
*Euaresta bellula* Snow.  
     *latipennis*.  
*Urellia conjuncta* Adams.  
     *flava* Adams.

MICROPEZIDÆ.

*Micropeza turcana* Towns.  
*Calobata pleuritica* Johnson.

DIOPSIDÆ.

*Sphyracephala affinis* Adams.  
nitidus Adams.  
pollinosus Adams.

EPHYDRIDÆ.

*Notophila decoris* Will.  
*Paralimna multipunctata* Will.  
obscura Will.  
*Discomyza dubia* Will.  
*Discocerina obscura* Will.  
*Ochtheroidea atra* Will.  
*Ephydra pygmæa* Will.  
tarsata Will.

OSCINIDÆ.

*Chlorops albifacies* Adams.  
appropinqua Adams.  
bilineata Adams.  
cinereipennis Adams.  
halteralis Adams.  
ingrata Will.  
liturata Adams.  
parva Adams.  
recurva Adams.  
rubicunda Adams.  
*Hippelates splendens* Adams.  
*Elachiptera bilineata* Adams.  
*Oscinis collusor* Towns.  
incipiens Will.

DROSOPHILIDÆ.

*Drosophila coffeata* Will.  
ornatipennis Will.  
pallida Will.

AGROMYZIDÆ.

*Agromyza lateralis* Will.  
sorosis Will.  
*Ophthalmomyia lacteipennis* Loew.  
lobioptera Will. (Cotype.)

HIPPOBOSCIDÆ.

*Trichobius dugesii* Towns.

NYCTERIBIDÆ.

*Nycteribia antrozoi* Towns.

AFRICAN DIPTERA.

*Systropus snowi* Adams.  
*Promachus flavibarbis* Adams.  
negligens Adams.  
solus Adams.  
apicalis Adams.  
*Sisyrnodites major* Adams.  
nigrifimbriis Adams.  
*Melanostoma bituberculata* Adams.  
*Eristalis communis* Adams.  
æqualis Adams.  
dissimilis Adams.  
longicornis Adams.  
*Hineia flavipes* Adams.  
*Pasacompomyia houghi* Adams.  
splendida Adams.  
vesticulis Adams.  
*Tipula velusa* Doane.  
nincineta Doane.  
spectabilis Doane.  
streptocera Doane.  
sulphuræ Doane.

SUMMARY OF ORDERS.

	Species.
Diptera.....	510
Hymenoptera.....	215
Lepidoptera.....	97
Hemiptera.....	38
Orthoptera.....	11
Neuroptera.....	1
Total number of species.....	872